

# EADGENE\_S Newsflash

Strengthening the durable integration of EADGENE

Workshop April 2013

**Workshop**  
**"Principles of Genomic Selection"**  
*April 22th -24th, 2013*

Leibniz Institute for Farm Animal Biology  
Dummerstorf, Germany



This workshop introduces the basic principles of genomic selection and association studies. It is addressed to young and other interested scientists, especially those who are mainly working in fields other than genetics. The aim is to enable the participants to better cooperate in interdisciplinary research projects and scientific discussion.

*Coordinator:* Manfred Mayer (Institute for Genetics and Biometry, FBN)

*Time:* April 22<sup>nd</sup> (14:00) to April 24<sup>th</sup> (12:00) 2013

*Venue:* Conference Centre of the [Leibniz Institute for Farm Animal Biology \(FBN\)](#); Dummerstorf, Germany

**Day 1:** Arrival, registration (until 14:00)  
SNP data generation

- Klaus Wimmers

**Day 2:** Linkage disequilibrium  
Estimation of marker effects  
Genomic relationship  
Estimation of genomic breeding values  
Impact on breeding plans  
Evening: social event

- Manfred Mayer  
- Friedrich Teuscher  
- Norbert Reinsch

**Day 3:** Implementation of genomic selection in German Holsteins

- Contributed by the Computing Center [VIT Verden](#)

The course starts with a demonstration of what it takes in the "wet-lab" to generate raw data and filter out reliable marker information which is diagnostic for the entire genome. The theory behind exploiting linkage disequilibrium will be explained and "toy-data" sets of limited sizes will be used to calculate genomic relationships from raw data and estimate genomic breeding values. Their use to enhance power and efficacy of selecting the best sires will be demonstrated and discussed by the practitioner from the VIT Verden (Germany).

All scientists presenting the different topics are experts with long standing records of research in the field. The number of participants is limited to 15 to leave enough time for individual discussions and answering particular questions.

Dummerstorf is located close to the city of Rostock. A shuttle service will be provided to bring the delegates from the Rostock railway station to the venue and also to the respective hotel etc. Rostock may easily be reached from Hamburg airport via train.

*Accommodation:* [TRI-Hotel](#) in Rostock offers rooms at reasonable prices

*Registration:* Please register before March 15<sup>th</sup> via e-mail to: [seyfert@fbn-dummerstorf.de](mailto:seyfert@fbn-dummerstorf.de)

